

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
17 July 2003 (17.07.2003)

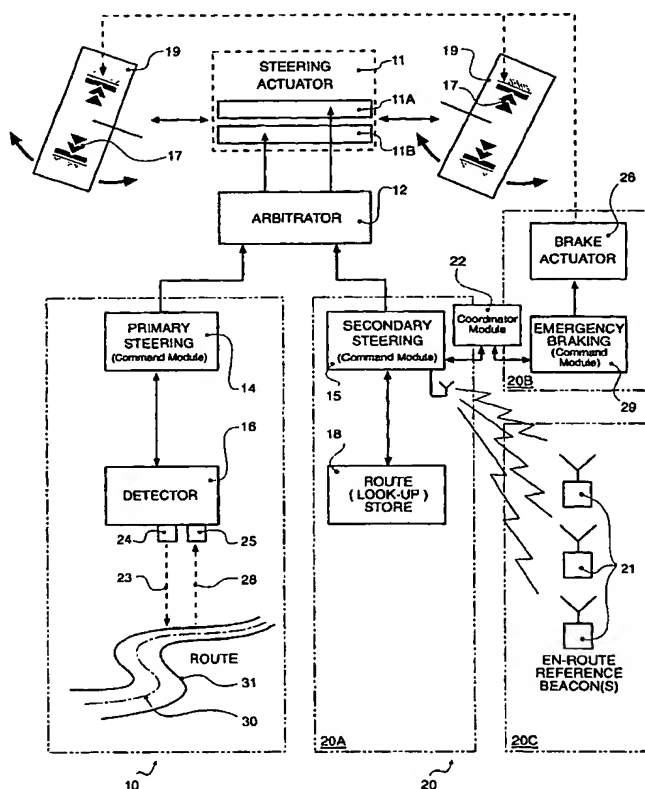
PCT

(10) International Publication Number
WO 03/058169 A1

- (51) International Patent Classification⁷: G01C 21/26 (74) Agent: TILLBROOK, Christopher, John; 1 Mill Street, Warwick CV34 4HB (GB).
- (21) International Application Number: PCT/GB03/00054
- (22) International Filing Date: 9 January 2003 (09.01.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0200563.5 11 January 2002 (11.01.2002) GB
- (71) Applicants and
(72) Inventors: PEMBERTON, Martin [GB/GB]; Transport Design International, 12 Waterloo Park Estate, Bidford on Avon, Warwickshire B50 4JH (GB). AYLWARD, Roger [GB/GB]; Transport Design international, 12 Waterloo Place, Bidford on Avon, Warwickshire B50 4JH (GB).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: AUTOMATED VEHICLE STEERING AND BRAKING



(57) Abstract: A vehicle steering system, with multiple independent systems, employing different route referencing, such as a primary system (10), referring to a physical reference line (30), or multiple discrete markers; and a secondary system (20), referring to an independent reference store (18), expressed as a sequential instruction table, configured as an emergency backup, implemented upon failure of the primary system; the system allows co-ordinated vehicle steering and braking, for adherence to a prescribe route; multiple discrete route markers (66) allow route banding (62), and multiple routes (60A, 60B).



Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.